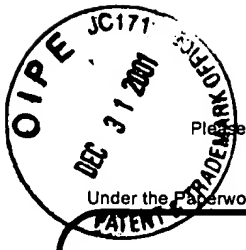
1-8-02

2641




Please type a plus sign (+) inside this box [+]

PTO/SB/21 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# TRANSMITTAL FORM

*(to be used for all correspondence after initial filing)*

| | |
|---|---|
| Application Number | 09/955,225 |
| Filing Date | 09/18/2001 |
| First Named Inventor | Faibish |
| Group Art Unit | 2641 |
| Examiner Name | Unknown |
| Total Number of Pages in This Submission: 63 | Attorney Docket Number: 10830.0081.NPUS00 |

RECEIVED
JAN 22 2002
Technology Center 2600

## ENCLOSURES *(check all that apply)*

- [ ] Fee Transmittal Form
  - [ ] Fee Attached
- [ ] Amendment / Reply
  - [ ] After Final
  - [ ] Affidavits/declaration(s)
- [ ] Extension of Time Request
- [ ] Express Abandonment Request
- [ ] Information Disclosure Statement
- [ ] Certified Copy of Priority Document(s)
- [ ] Response to Missing Parts/ Incomplete Application
  - [ ] Response to Missing Parts under 37 CFR 1.52 or 1.53
- [ ] Assignment Papers *(for an Application)*
- [x] Drawing(s) Formal (39 sheets)
- [ ] Licensing-related Papers
- [ ] Petition
- [ ] Petition to Convert to a Provisional Application
- [ ] Power of Attorney, Revocation Change of Correspondence Address
- [ ] Terminal Disclaimer
- [ ] Request for Refund
- [ ] CD, Number of CD(s) _____
- [ ] After Allowance Communication to Group
- [ ] Appeal Communication to Board of Appeals and Interferences
- [ ] Appeal Communication to Group *(Appeal Notice, Brief, Reply Brief)*
- [ ] Proprietary Information
- [ ] Status Letter
- [x] Other Enclosure(s) *(please identify below)*:

Return Receipt Postcard

Request for Permission to Amend the Drawings and Submission of Formal Drawings

Remarks: (drawing changes in red in attached sketches, submitted in triplicate)(18 sheets total of sketches)

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

| | |
|---|---|
| Firm or Individual name | Richard C. Auchterlonie, Esq., Reg. No. 30,607<br>HOWREY SIMON ARNOLD & WHITE, LLP |
| Signature | Richard C. Auchterlonie |
| Date | 31 Dec. 2001 |

## CERTIFICATE OF EXPRESS MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service EXPRESS MAIL POST OFFICE TO ADDRESSEE Commissioner for Patents, Washington, DC 20231 No. EL291391445US 31 Dec, 01

| | | | |
|---|---|---|---|
| Typed or printed name | Richard C. Auchterlonie, Esq., Reg. No. 30,607 | | |
| Signature | Richard C. Auchterlonie | Date | 31 Dec. 2001 |

EXPRESS MAIL MAILING LABEL
NUMBER EL291391445 US
DATE OF DEPOSIT 31 December 2001
I hereby certify that this paper or fee is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Washington D.C. 20231.
Richard C. Auchterlonie
Signature
REG. 30,607



**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Sorin Faibish, et al.

Serial No.: 09/955,225

Filed: 9/18/2001

For: Insertion of Noise for Reduction in the Number of Bits for Variable-Length Coding Of (Run, Level) Pairs

Group Art Unit: 2641

Examiner: Unknown

Atty. Dkt. No.: 10830.0081.NPUS00

**REQUEST FOR PERMISSION TO AMEND THE DRAWINGS AND SUBMISSION OF FORMAL DRAWINGS**

Commissioner for Patents
Washington, DC 20231

Sir:

Please approve the following drawing changes, which are shown in red in the attached sketches, submitted in triplicate. Also enclosed is a set of formal drawings (39 sheets) including the requested changes.

In FIG. 30, at the top, --WITHOUT PIVOTING-- is added after "FDSNR-LMIS", in accordance with the original specification, page 85, lines 8-9 ("for the case where no pivoting is used.").

In FIG. 30, box 463, "COEFFICIENTS" is changed to --QUANTIZATION INDICES--, and the text in the box is re-arranged to read "SORT THE QUANTIZATION INDICES IN

DESCENDING ORDER OF THEIR MAGNITUDES" in accordance with the original specification, page 85, lines 16-17 ("In step 463, the quantization indices are sorted in descending order of their magnitudes.").

In FIG. 30, box 464, "COEFFICIENTS" is changed to --INDICES-- in two places, in accordance with the original specification, page 85, lines 18 to 20 ("In step 464, up to the first K indices of the sorted list are kept and the last 63-K indices of the sorted list are in effect set to zero.").

In FIG. 30, box 465, "COEFFICIENTS" is changed to --INDICES--, in accordance with the original specification, page 85 line 23 to page 86 line 1 ("In step 465, (run, level) event formation and entropy encoding is applied to the new set of up to the first K indices in the sorted list.").

In FIG. 33, at the top, "RUN-LENGTH" is changed to --RUN-LEVEL--, in accordance with the original specification, page 13, lines 7-10 ("in order to avoid escape sequences or reduce the number of bits for (run, level) encoding, ...").

In FIG. 33, the three boxes are labeled --481--, --482--, and --483--, in accordance with the original specification, page 91 lines 15-17, page 92 lines 10-13, and page 92 lines 14-17, respectively.

In FIG. 33, in the second box (482), there is inserted --TO ELIMINATE MORE ESCAPE SEQUENCES AND --, and "ENCODING OF THE RETAINED NON-QUALIFYING NON-ZERO AC COEFFICIENTS" has been changed to --ENCODINGS--, in accordance with the original specification, page 92, lines 10-13 ("in order to eliminate more escape sequences and to reduce the number of bits for (run, level) encodings.").

In FIG. 33, in the third box (483), "COEFFICIENT NOT FOUND" is changed to --ZERO-VALUE AC COEFFICIENT--, in accordance with the original specification, page 92, lines 14-17 ("inserting a pivot point of level magnitude 1 for a level zero coefficient in the transformation of the original high-quality 8x8 pixel block into the lower quality version.")

In FIG. 36, the reference numerals "481", "482", and "483" are removed. These reference numerals were used in the original specification not to refer to FIG. 36, but to refer to boxes in FIG. 33, on page 91 lines 15-17, page 92 lines 10-13, and page 92 lines 14-17, respectively.

In FIG. 36, 'non-qualifying" is changed to --zero-level--, in accordance with the original specification, page 100, lines 5-8 ("the number R of consecutive AC coefficients having a zero level and immediately preceding the coefficient $C_k$ in the scan order.").

In FIG. 37, the row label of the table is changed from "RUN" to --RUN LENGTH--, and the column label of the table is changed from "MAGNITUDE OF LEVEL" to --LEVEL MAGNITUDE--, in accordance with the original specification, page 100, lines 14-20 ("a two-dimensional pivot table having a respective entry for each possible run length and level magnitude."

In FIG. 37, a --1--has been inserted at the top left of the table, in accordance with the original specification, page 100, lines 18 to 20 ("2048 columns for each possible encoded level magnitude from 1 to 2048.").

In FIG. 37, "NO ESCAPE (ZERO)" is deleted, and "ESCAPE (ONE)" is changed to --NO PIVOT (ZERO)--, in accordance with the original specification, page 100, lines 20-22

("Inspection of such a pivot table, however, shows that no pivot should (or can) be inserted for a run length of zero, a run length greater than 32, or a level magnitude greater than 40.").

In FIG. 37, a reference numeral 497 has been added to designate the partial pivot table, in accordance with the original specification, page 100, lines 22-23 ("partial pivot table (497) having 32 rows and 40 columns.").

In FIG. 39, reference numerals "508", "509", "510", "511", "512", and "513" have been added to designate the boxes, in accordance with the original specification, page 101 line 7 to page 102 line 10.

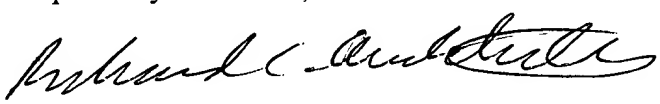
In FIG. 40, reference numerals "521", "522", "523", "524", "525", "526", "527", "528", "529", and "530" have been added to the boxes, in accordance with the original specification, page 102 lines 11 to 23, and page 106 lines 6 to 16.

In FIG. 40, the lines exiting the right of the boxes 523 and 526 have been changed to flow to box 522 (do not insert a pivot) instead of box 524 (insert a pivot) in accordance with the original specification, page 102, lines 16-17 ("In step 523, if the run length is greater than 32, execution branches to step 522, to return an indication that a pivot is not to be inserted."), and page 102, lines 19-21 ("In step 526, if the magnitude is greater than 40, then execution branches to step 522 to return an indication that a pivot is not to be inserted.").

In FIG. 40, box 527, "PPTV← PPT(RUN, LEVEL)" is changed to --PPTV←PPT(RUN, MAG)--, because the partial pivot table is a table of run length vs. level magnitude, as described in the original specification on page 100, lines 18-23, and on page 106, lines 6-8 ("the partial pivot table value (PPTV) for row = RUN and column = MAG").

In FIG. 41, reference numerals "541", "542", "543", "544", and "545" have been added to the boxes, in accordance with the original specification, page 106 line 17 to page 107 line 4. In addition, in boxes 542 and 544, "PIVOT POINTS" is changed to --PIVOT INDICES--, in accordance with the original specification on page 106 lines 20-22 ("inserting noise, in the form of pivot indices, to reduce the number of bits for (run, level) coding ..."), and on page 106 line 23 to page 107 line 2 ("partial removal of the noise (pivot indices) by removal of possible pivot indices not likely to occur in the original block-coded picture.").

Respectfully submitted,



Richard C. Auchterlonie
Reg. No. 30,607

Howrey Simon Arnold & White, LLP
750 Bering Drive
Houston, TX 77057-2198
(713)-787-1400